

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P648421

Luminaire Tested: **GALN-SA5B-835-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648421
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14419 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

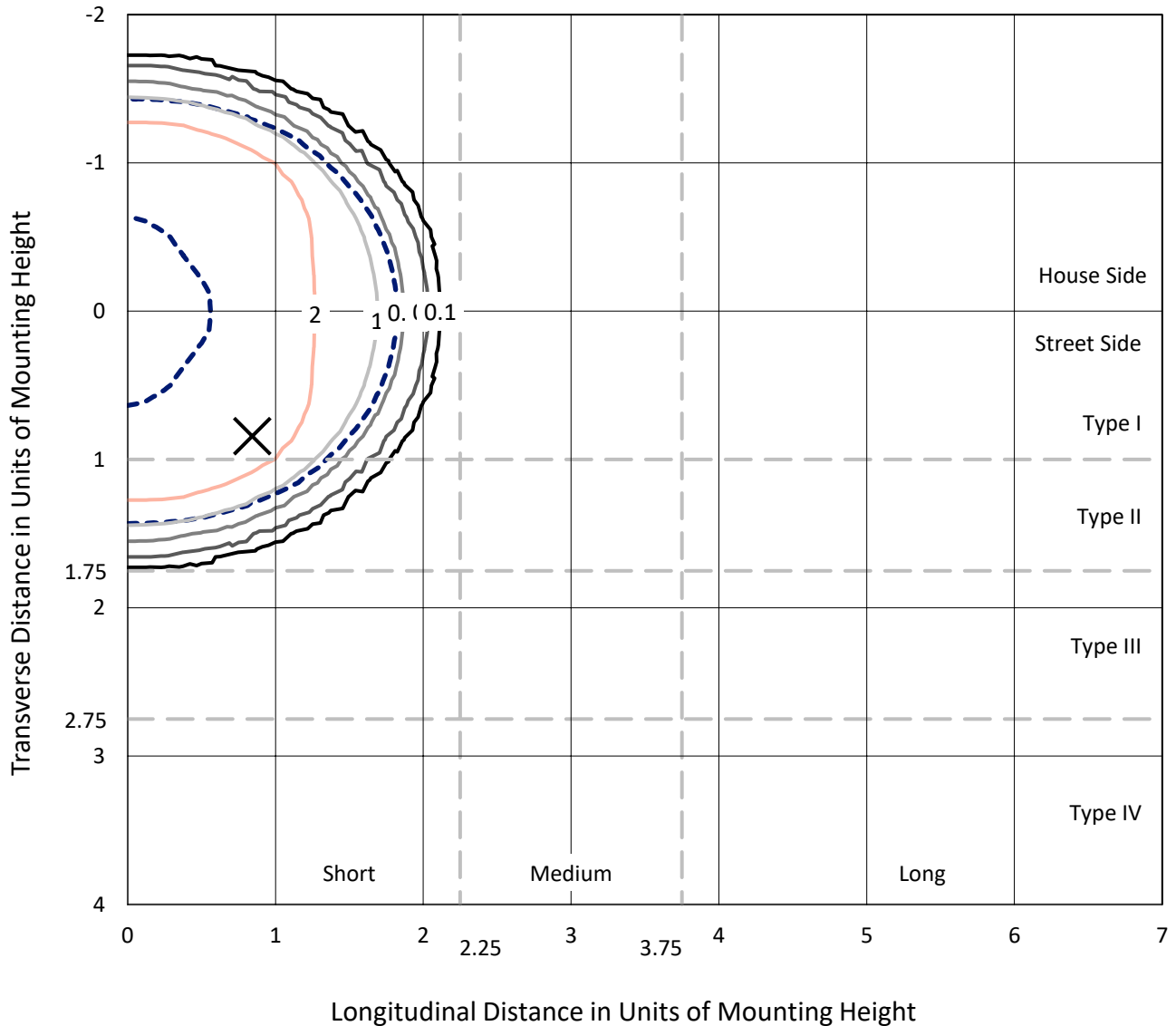
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

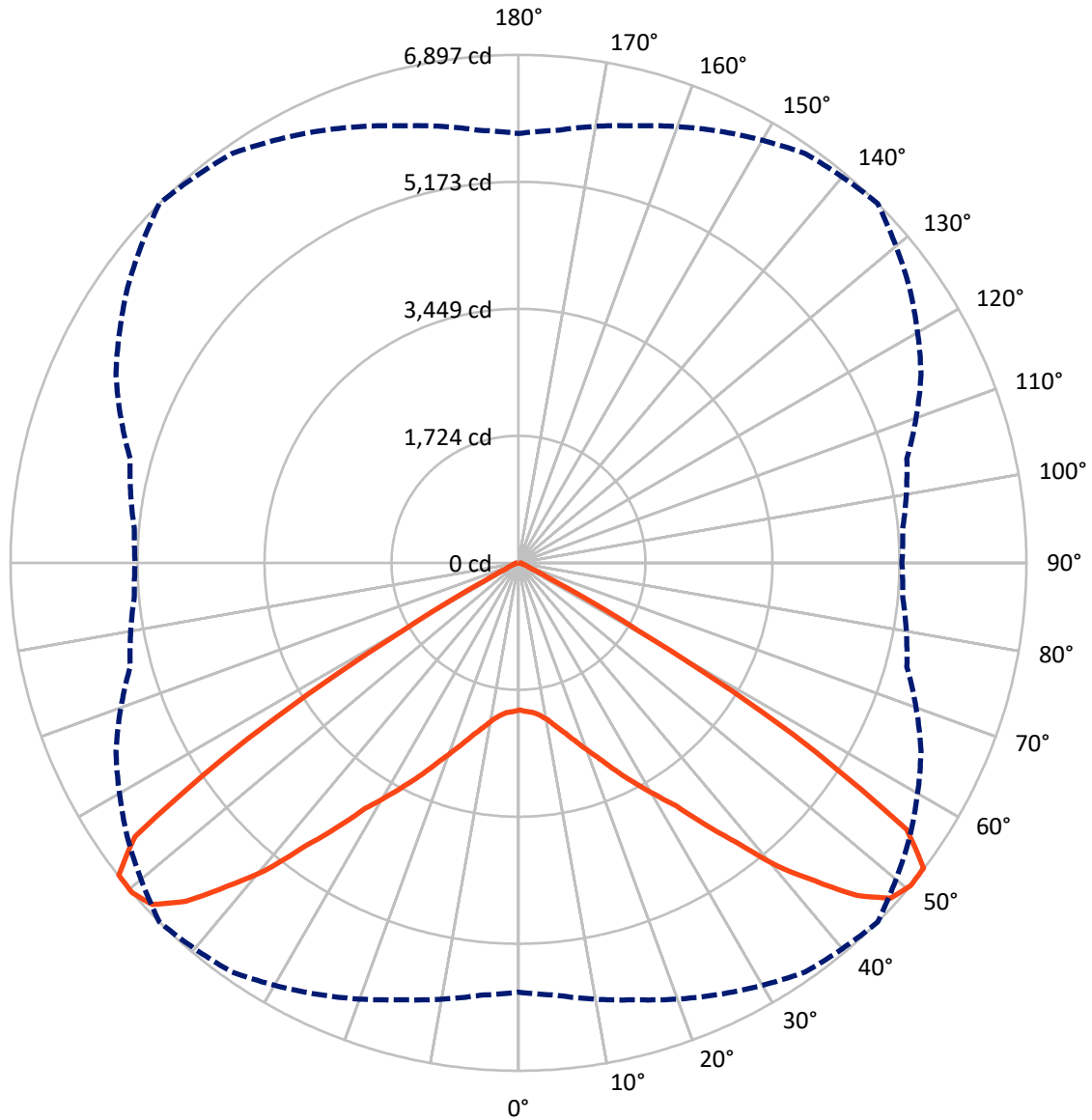
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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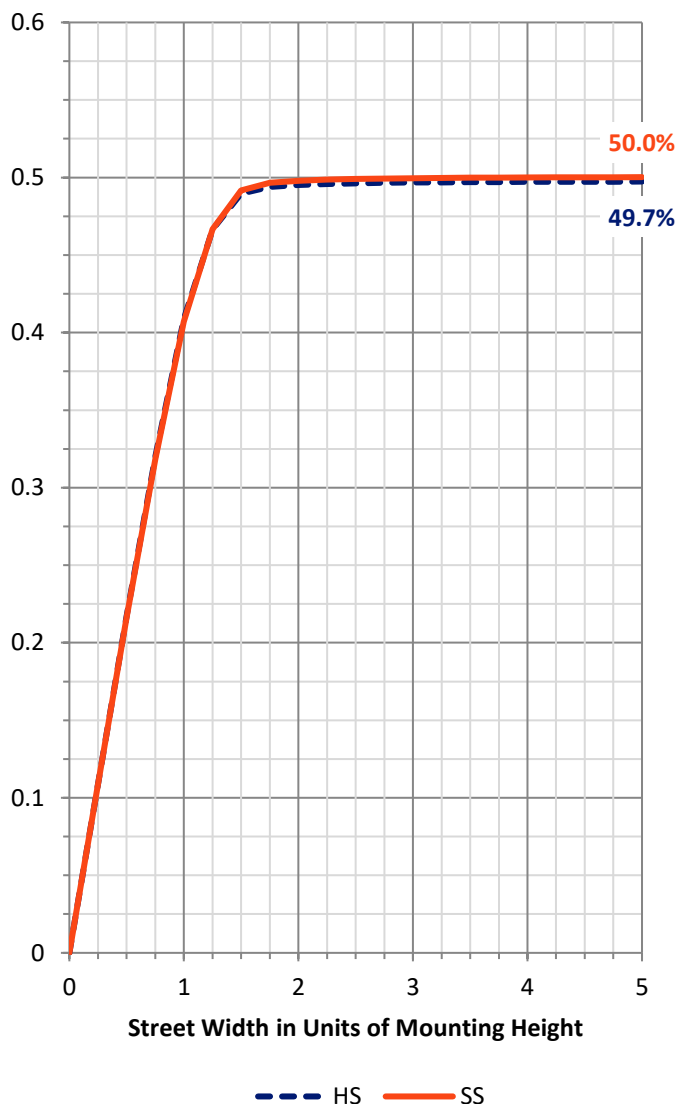
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7209.5	0.0	7209.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7209.5	0.0	7209.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14419.0	0.0	14419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.9	1.4
10°-20°	685.4	4.8
20°-30°	1399.9	9.7
30°-40°	2669.6	18.5
40°-50°	4498.8	31.2
50°-60°	4290.3	29.8
60°-70°	598.9	4.2
70°-80°	57.3	0.4
80°-90°	19.8	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14419.0	100.0
0°-180°	14419.0	100.0

Coefficient of Utilization



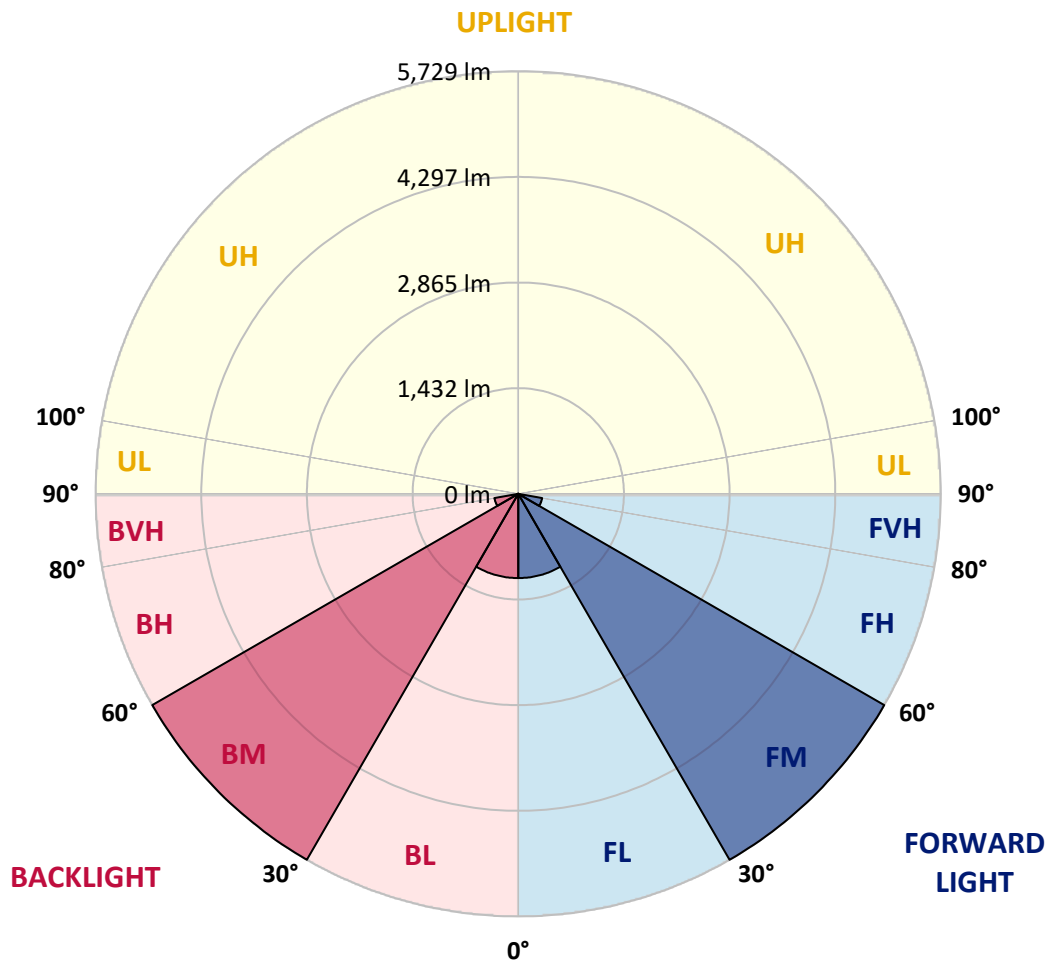
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1142.1	7.9			
FM (30°-60°)	5729.4	39.7			
FH (60°-80°)	328.1	2.3			G0/660
FVH (80°-90°)	9.9	0.1			G0/10
BL (0°-30°)	1142.1	7.9	B3/2500		
BM (30°-60°)	5729.4	39.7	B4/8500		
BH (60°-80°)	328.1	2.3	B1/500		G0/660
BVH (80°-90°)	9.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1999.0	1999.0	1999.0	1999.0	1999.0	1999.0	1999.0	1999.0	1999.0	1999.0	1999.0
2.5°	1991.7	1991.7	1989.3	2008.7	1999.0	2020.8	2018.4	2025.7	2033.0	2030.6	2050.0
5°	1974.8	1972.4	1972.4	1994.1	2016.0	2040.3	2062.1	2076.7	2100.9	2100.9	2125.2
7.5°	1991.7	1979.7	1996.6	2006.3	2047.5	2088.8	2125.2	2154.3	2210.1	2229.5	2222.2
10°	1996.6	2011.1	2023.3	2052.4	2103.4	2166.4	2198.0	2270.8	2333.8	2377.5	2387.2
12.5°	2028.1	2050.0	2084.0	2154.3	2200.4	2282.8	2326.5	2396.9	2484.2	2532.8	2566.8
15°	2088.8	2096.1	2139.7	2229.5	2329.0	2404.2	2472.1	2523.1	2607.9	2663.8	2666.2
17.5°	2166.4	2198.0	2258.6	2343.5	2447.8	2559.5	2612.8	2668.6	2700.2	2775.3	2792.3
20°	2321.7	2326.5	2384.8	2496.4	2627.4	2729.2	2768.1	2797.2	2785.1	2862.6	2877.2
22.5°	2467.2	2472.1	2544.9	2695.3	2836.0	2923.3	2940.3	2923.3	2886.9	2942.7	2947.6
25°	2615.2	2658.9	2712.3	2862.6	3037.3	3153.8	3156.2	3110.2	3034.9	3044.6	3068.9
27.5°	2845.7	2877.2	2933.0	3071.3	3263.0	3394.0	3372.1	3316.3	3219.3	3226.6	3219.3
30°	3115.0	3144.1	3190.2	3367.3	3508.0	3651.1	3682.7	3629.3	3483.7	3452.2	3488.6
32.5°	3440.1	3481.3	3566.3	3728.8	3847.7	3935.0	3956.8	3937.4	3801.5	3789.4	3813.7
35°	3835.5	3891.3	3968.9	4112.1	4209.1	4366.8	4366.8	4301.3	4177.6	4192.1	4189.7
37.5°	4252.8	4335.2	4456.6	4602.2	4733.2	4818.0	4791.3	4735.6	4611.9	4580.3	4611.9
40°	4776.8	4818.0	4970.9	5160.1	5320.3	5417.3	5303.3	5182.0	4886.0	4932.0	5017.0
42.5°	5254.7	5320.3	5436.7	5645.4	5827.2	5907.3	5771.5	5531.3	5174.7	5138.3	5201.4
45°	5662.3	5732.7	5885.5	6183.9	6375.6	6445.9	6145.1	5756.9	5349.4	5257.1	5283.8
47.5°	5934.0	5970.4	6183.9	6467.7	6642.4	6802.5	6370.7	5912.2	5431.8	5257.1	5247.4
50°	5829.7	5892.8	6142.6	6465.3	6783.1	6897.1	6484.7	6031.1	5458.5	5235.3	5206.2
52.5°	5177.1	5286.3	5565.3	5999.5	6479.9	6887.4	6642.4	5992.2	5448.8	5257.1	5300.8
55°	3602.6	3605.0	3944.7	4585.2	5434.3	6394.9	6411.9	6035.9	5511.9	5393.0	5395.4
57.5°	1448.3	1521.1	1780.7	2423.5	3207.2	4391.1	5220.7	5599.2	5519.1	5490.1	5565.3
60°	366.4	368.7	448.8	684.1	1128.1	1882.6	2734.1	3699.7	4260.1	4451.7	4478.4
62.5°	186.8	189.3	208.7	242.6	308.1	504.6	897.6	1424.0	2025.7	2331.4	2411.5
65°	152.8	152.8	165.0	182.0	184.4	194.1	232.9	332.4	482.8	548.3	555.5
67.5°	116.4	116.4	126.1	135.9	140.7	138.3	133.4	138.3	167.4	160.1	155.3
70°	72.8	75.2	80.0	89.7	94.6	97.0	99.4	104.3	118.9	123.7	118.9
72.5°	43.7	43.7	46.1	53.4	60.7	65.5	72.8	77.6	84.9	97.0	94.6
75°	19.4	19.4	24.3	31.6	38.8	46.1	53.4	60.7	65.5	72.8	75.2
77.5°	4.9	7.3	12.1	21.8	29.1	38.8	48.5	55.8	60.7	60.7	58.3
80°	2.4	2.4	9.7	17.0	31.6	41.3	53.4	58.3	65.5	60.7	53.4
82.5°	2.4	2.4	9.7	17.0	29.1	41.3	55.8	63.1	68.0	60.7	51.0
85°	0.0	2.4	7.3	14.6	24.3	29.1	24.3	17.0	9.7	9.7	7.3
87.5°	0.0	0.0	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)